CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/RV/W.No.02/CSR-01/260d/CEMENT/2016-17

Date: 02.02.2017

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Vasanth,** Contractor, Bangalore.
* Name of Work	:	Construction of RO Plant at Yelahanka Old town area in Ward No.02, BBMP, Bangalore.
* Reference	:	EE/YNK(D)/PMT/3/W.O/88/2016-17 Dated: 31.08.2016
* Sample ID	:	Cement
Sample Received on	:	31.01.2017
Period of Testing	:	31.01.2017 to 02.02.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	170 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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T-2377

02.02.2017

Job No.: CTCE/BBMP/RV/W.No.02/CSR-01/260d/SAND-Gradation/2016-17

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: **Mr. R. Vasanth,** Contractor, Bangalore.
* Name of Work	: Construction of RO Plant at Yelahanka Old town area in Ward No.02, BBMP, Bangalore.
* Reference	: EE/YNK(D)/PMT/3/W.O/88/2016-17 Dated: 31.08.2016
* Sample ID	: Fine Aggregates
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 31.01.2017
Date of Testing	: 02.02.2017

* Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.70	90-100	90-100	90-100	95-100
2.36	77.70	60-95	75-100	85-100	95-100
1.18	57.70	30-70	55-90	75-100	90-100
600 Micron	27.90	15-34	35-59	60-79	80-100
300 Micron	15.40	5-20	8-30	12-40	15-50
150 Micron	5.60	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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02.02.2017

Job No.: CTCE/BBMP/RV/W.No.02/CSR-01/260d/AGG/GR/2016-17

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Vasanth,** Contractor, Bangalore.
* Name of Work	:	Construction of RO Plant at Yelahanka Old town area in Ward No.02, BBMP, Bangalore.
* Reference	:	EE/YNK(D)/PMT/3/W.O/88/2016-17 Dated: 31.08.2016
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	31.01.2017
Date of Testing	:	02.02.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.30	95-100	85-100
20	35.84	30-70	0-20
10	15.74	10-35	0-5
4.75	3.78	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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T-2377

02.02.2017

Job No.: CTCE/BBMP/RV/W.No.02/CSR-01/260d/CC Solid Block/2016-17

TEST REPORT ON COMPRESSIVE STRENGTH OF SOLID CONCRETE BLOCKS

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Vasanth,** Contractor, Bangalore.
* Name of Work	:	Construction of RO Plant at Yelahanka Old town area in Ward No.02, BBMP, Bangalore.
* Reference	:	EE/YNK(D)/PMT/3/W.O/88/2016-17 Dated: 31.08.2016
Technical Reference	:	IS: 2185 (Part 1) - 2005
Size of Blocks	:	400mm x 200mm x 200mm
Cross Sectional Area	:	80000 mm^2
No. of Blocks Tested	:	08
Sample Received on	:	31.01.2017
Date of Testing	:	02.02.2017

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	34.65	258.9	3.24	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	35.15	262.3	3.28	
3	Block 3	36.32	263.4	3.29	
4	Block 4	34.15	264.5	3.31	
5	Block 5	36.35	265.3	3.32	
6	Block 6	35.15	262.7	3.28	
7	Block 7	36.39	261.3	3.27	
8	Block 8	34.89	260.5	3.26	

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02.02.2017

Job No.: CTCE/BBMP/RV/W.No.02/Steel/2016-17

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Vasanth,** Contractor, Bangalore.
* Name of work	:	Construction of RO Plant at Yelahanka Old town area in Ward No.02, BBMP, Bangalore.
* Reference	:	EE/YNK(D)/PMT/3/W.O/88/2016-17 Dated: 31.08.2016
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	02.02.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	512	514	13.2	O.K	O.K

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07.03.2017

Job No.: CTCE/BBMP/RV/W.No.02/CSR-01/260d/Cube/2016-17

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Vasanth,** Contractor, Bangalore.
* Name of the work	:	Construction of RO Plant at Yelahanka Old town area in Ward No.02, BBMP, Bangalore.
* Reference	:	EE/YNK(D)/PMT/3/W.O/88/2016-17 Dated: 31.08.2016
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	07.03.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.02.2017	07.03.2017	8.186	490.3	21.79
2	07.02.2017	07.03.2017	8.295	512.2	22.76
3	07.02.2017	07.03.2017	8.365	526.8	23.41

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07.03.2017

Job No.: CTCE/BBMP/RV/W.No.02/CSR-01/260d/Cube/2016-17

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Vasanth,** Contractor, Bangalore.
* Name of the work	:	Construction of RO Plant at Yelahanka Old town area in Ward No.02, BBMP, Bangalore.
* Reference	:	EE/YNK(D)/PMT/3/W.O/88/2016-17 Dated: 31.08.2016
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{30}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	07.03.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.02.2017	07.03.2017	8.205	510.6	22.69
2	07.02.2017	07.03.2017	8.325	524.8	23.32
3	07.02.2017	07.03.2017	8.407	546.5	24.29

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